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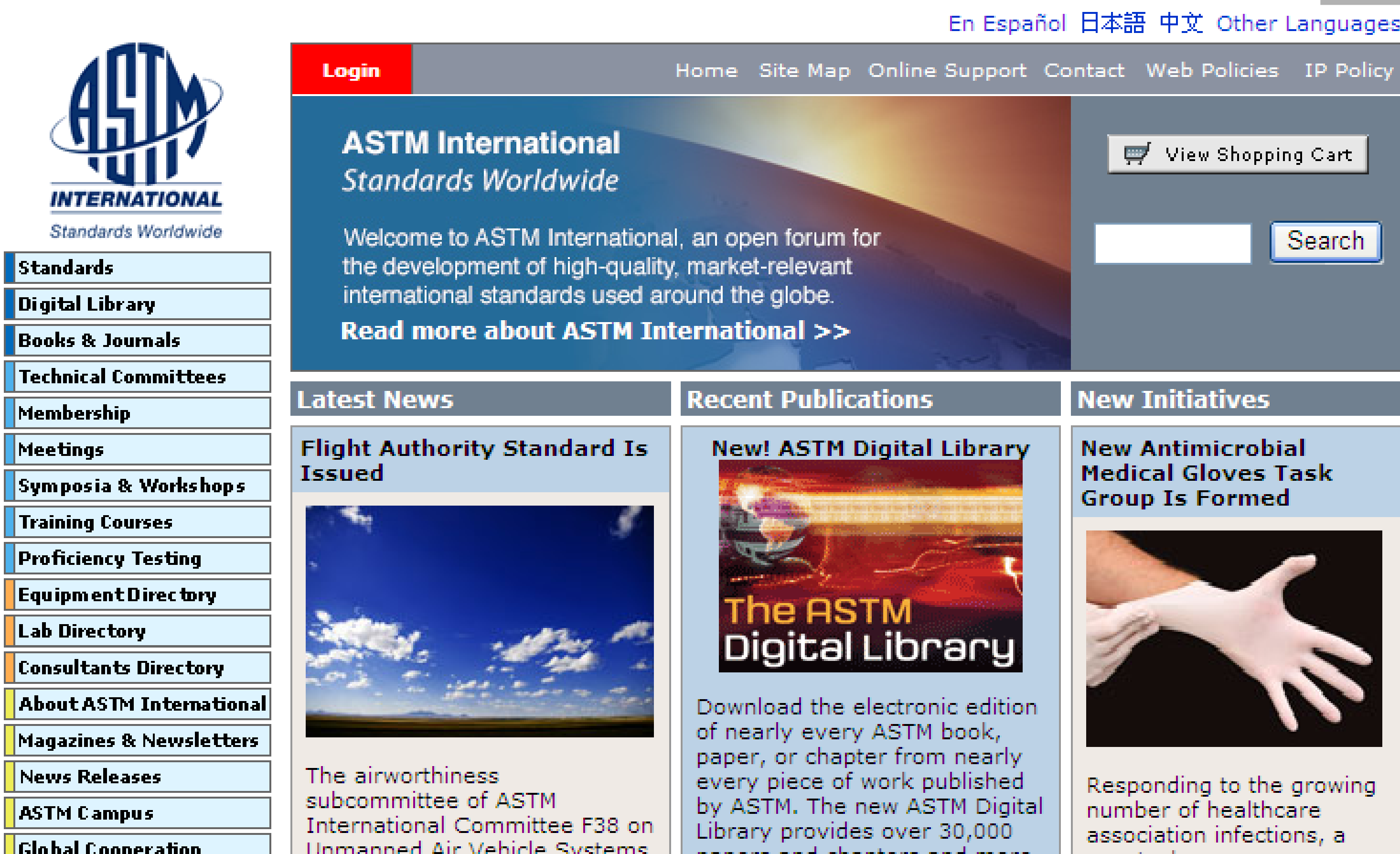




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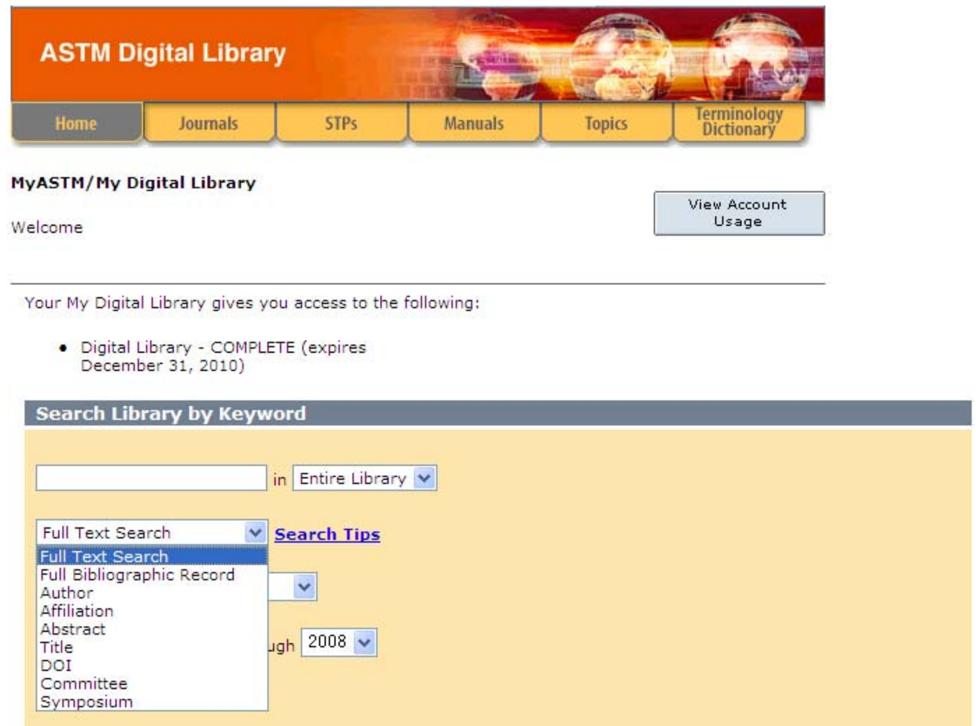
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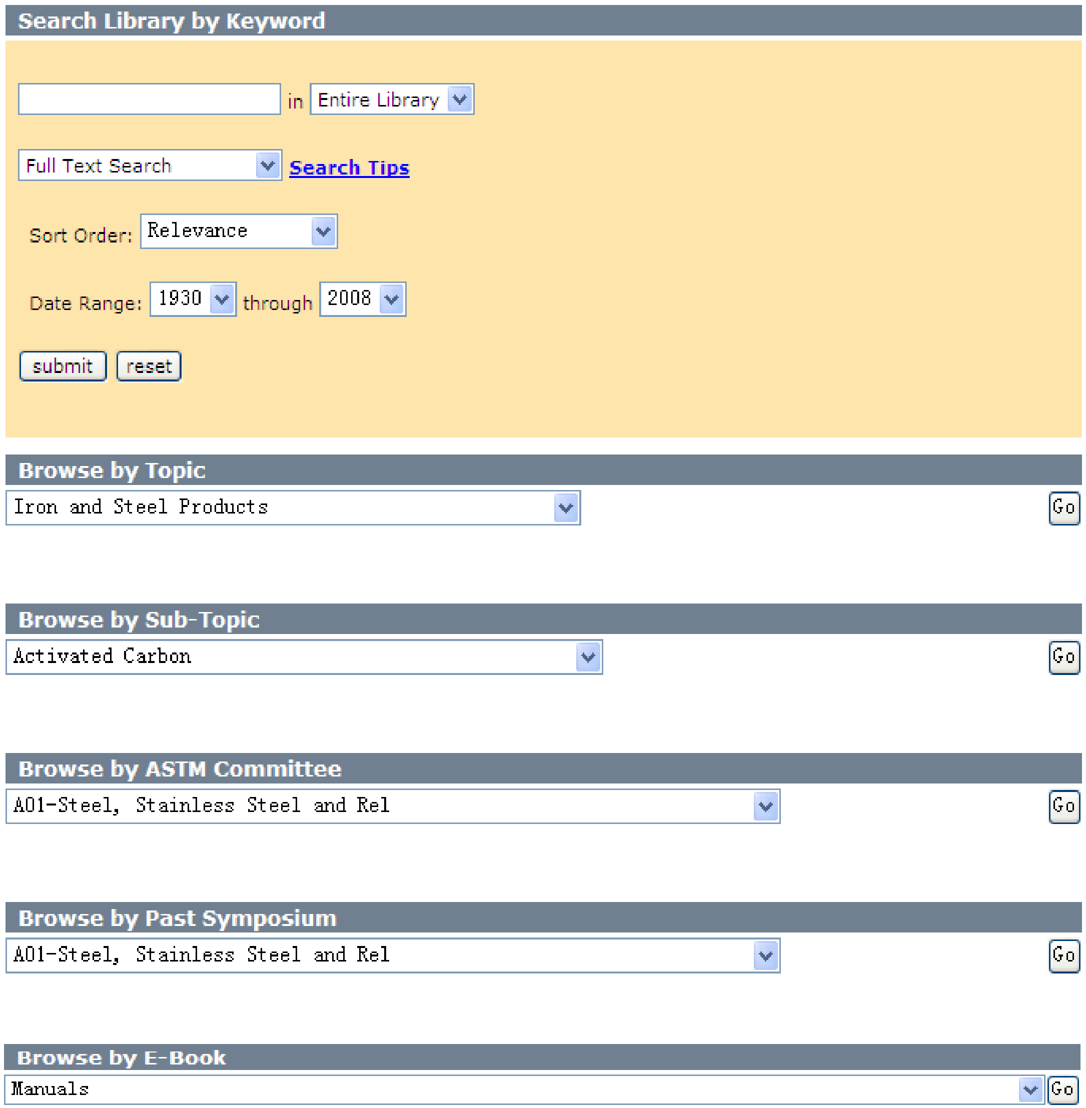


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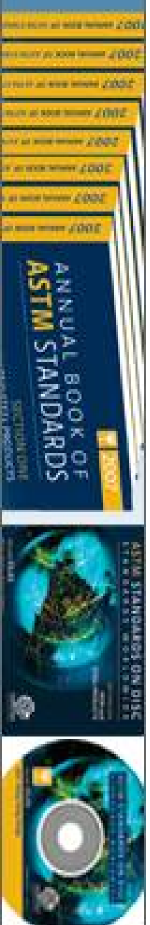
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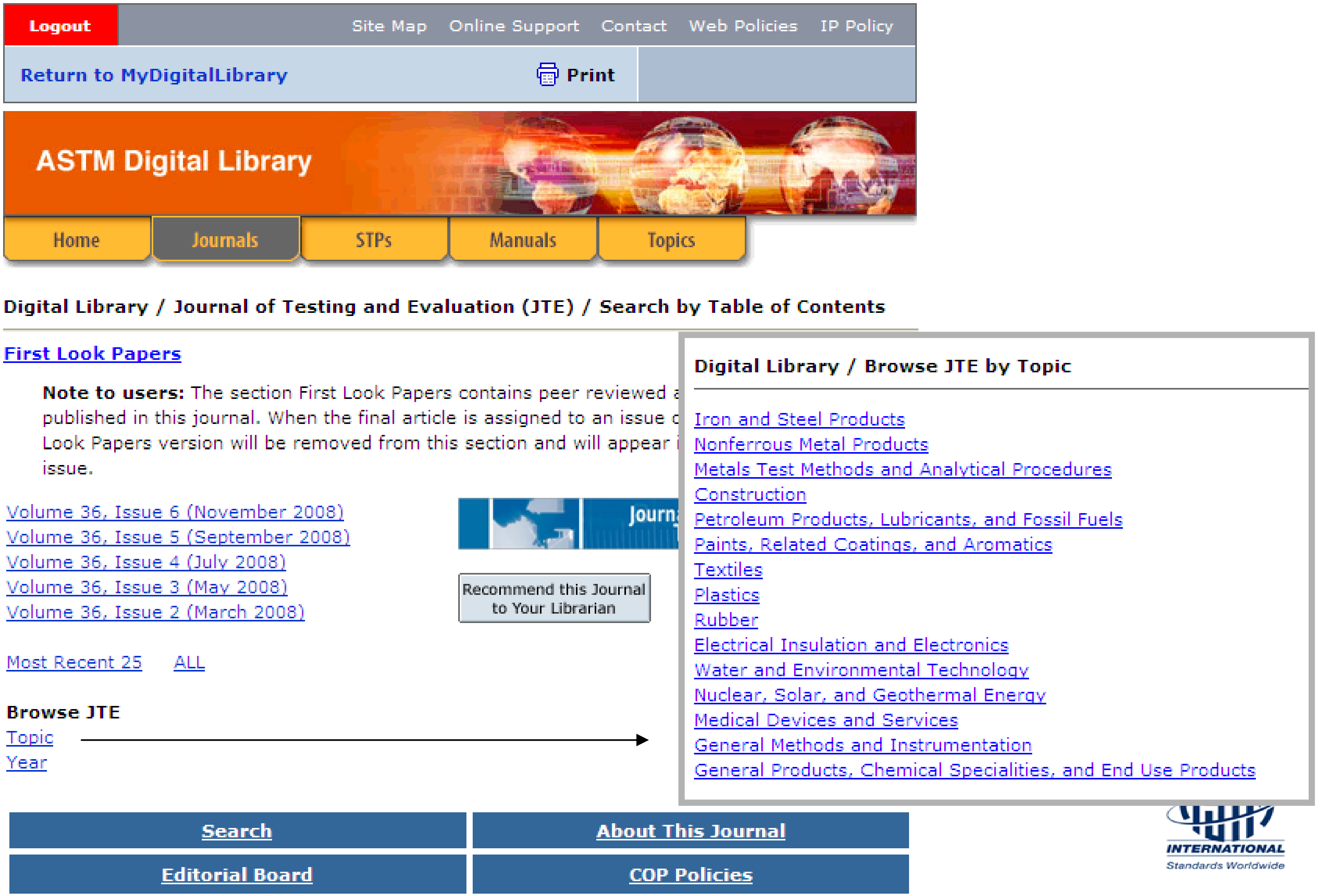




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摘要

Abstract
Medical imaging requires great integrity of content since any change in the image even in a slight amount might affect the diagnosis. Semi-fragile watermarking could be the best technique to provide an efficient image authentication tool for medical images. In this paper, we propose a semi-fragile watermarking technique for the tamper proofing of still images that can tolerate JPEG lossy compression to a predetermined lowest quality factor and rejects any replacement process. We also present comparison performance for the proposed algorithm to eight other common techniques.

Keywords:
semi-fragile, tamper proofing, JPEG compression

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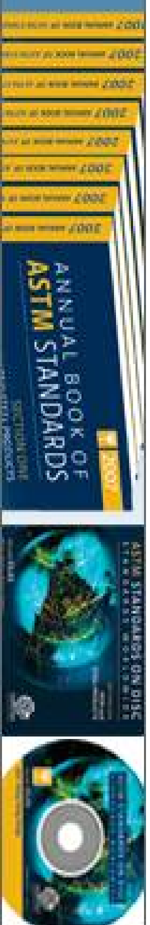
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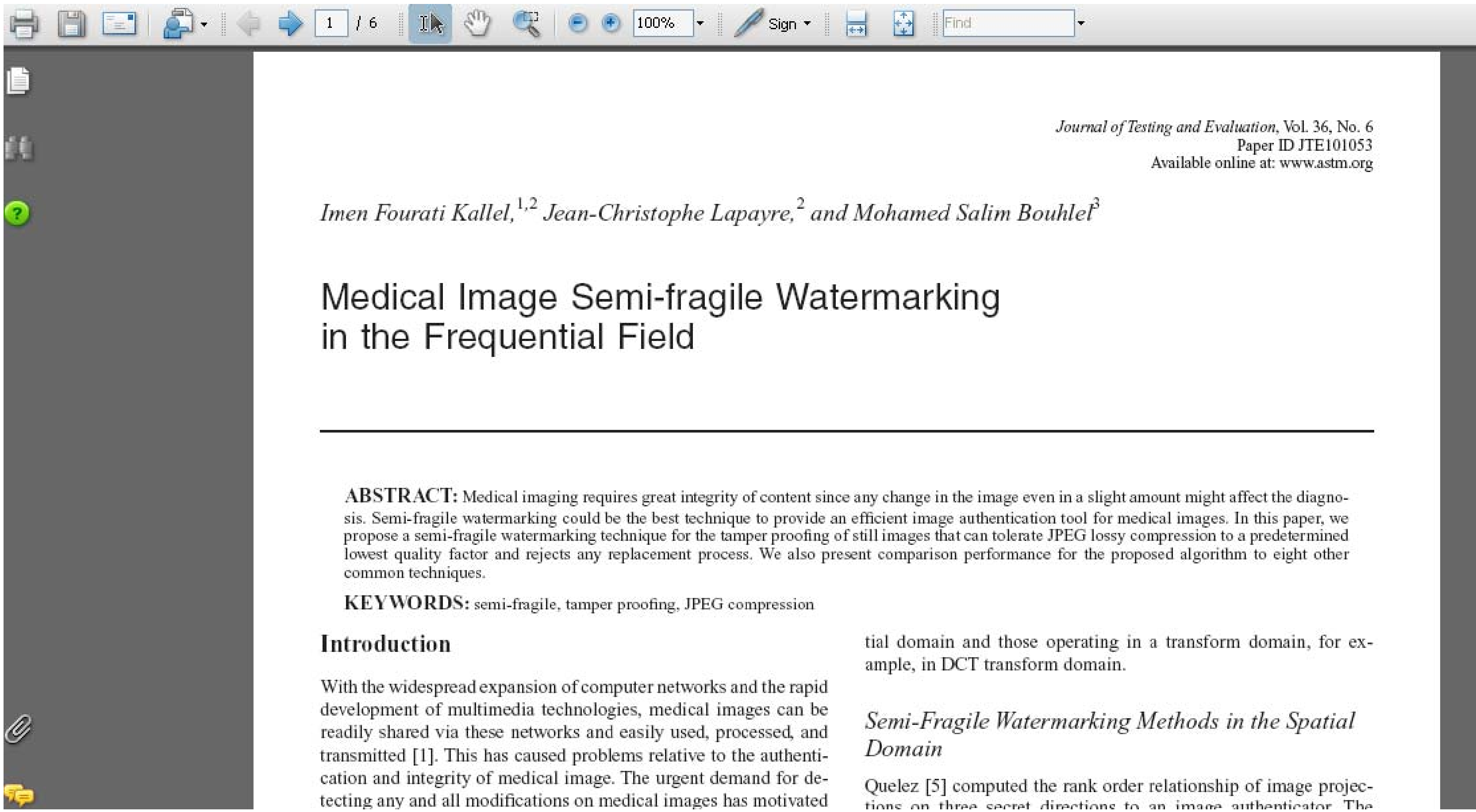
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Imen Fourati Kallel,[1,2] *Jean-Christophe Lapayre,*[2] *and Mohamed Salim Bouhlel*[3]

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ABSTRACT: Medical imaging requires great integrity of content since any change in the image even in a slight amount might affect the diagnosis. Semi-fragile watermarking could be the best technique to provide an efficient image authentication tool for medical images. In this paper, we propose a semi-fragile watermarking technique for the tamper proofing of still images that can tolerate JPEG lossy compression to a predetermined lowest quality factor and rejects any replacement process. We also present comparison performance for the proposed algorithm to eight other common techniques.

KEYWORDS: semi-fragile, tamper proofing, JPEG compression

Introduction

With the widespread expansion of computer networks and the rapid development of multimedia technologies, medical images can be readily shared via these networks and easily used, processed, and transmitted [1]. This has caused problems relative to the authentication and integrity of medical image. The urgent demand for detecting any and all modifications on medical images has motivated

tial domain and those operating in a transform domain, for example, in DCT transform domain.

Semi-Fragile Watermarking Methods in the Spatial Domain

Quelez [5] computed the rank order relationship of image projections on three secret directions to an image authenticator. The

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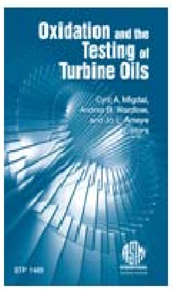
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Abstract

The current turbine oil oxidation bench tests have been in place for many years. Recently, however, the basestocks used to formulate these lubricants have changed significantly. Traditional basestocks, containing high levels of aromatics and sulfur, have been substantially displaced by more highly refined basestocks, which have very low levels of aromatics and almost no sulfur. Over time it has become clear that the oxidation performance of the different basestock classes is quite different. One key question, however, remains unanswered, What modifications are required in current bench tests to adequately mimic oxidation processes in modern turbine lubricants? In order to adequately address this critical question, the fundamentals of lubricant oxidation and stabilization will be discussed. Data will be presented on the oxidation of different basestocks under varying conditions of temperature, metal catalysts and antioxidant type, using model bulk oil oxidation tests. The data highlights the fundamental oxidation mechanisms that can occur in turbine oil systems and new test methods are proposed.

Keywords:
oxidation, stabilization, deposits, sludge, antioxidant, turbine oil, basestock, metal catalysts, bench tests, ASTM D 943, ASTM D 2272, CM-A (ASTM D 2070)

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With the certainty that coal resources will continue to be a dominant contributor to the energy industry in the United States and elsewhere in the world, ASTM Committee D05 continues to provide standards that ensure significant technological, economic, productivity, and environmental benefits from

(1) L.C.G Janke, J.A. Luppens, and R. D. Graham—*ASTM Standardization News*, ASTM International, West Conshohocken, PA, July 2004, pp. 22–27.

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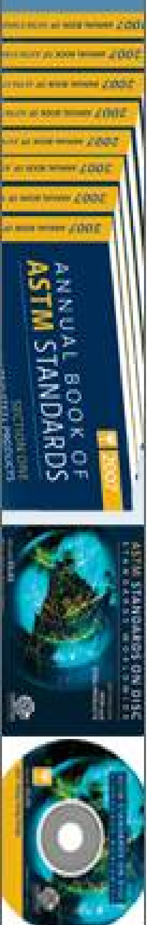
(3) Committee on Standards, "Precision and Bias," *ASTM Standardization News*, ASTM International, West Conshohocken, PA, January 1985, pp. 45.

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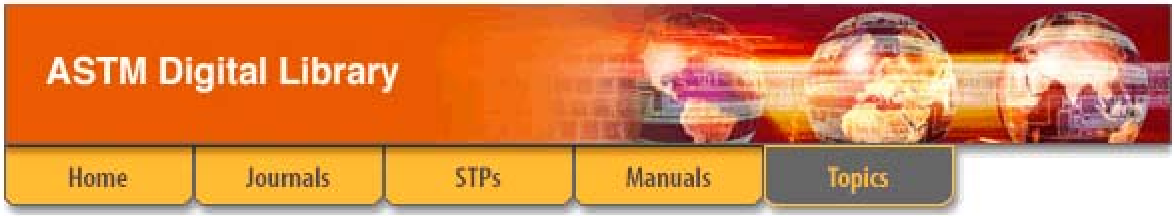
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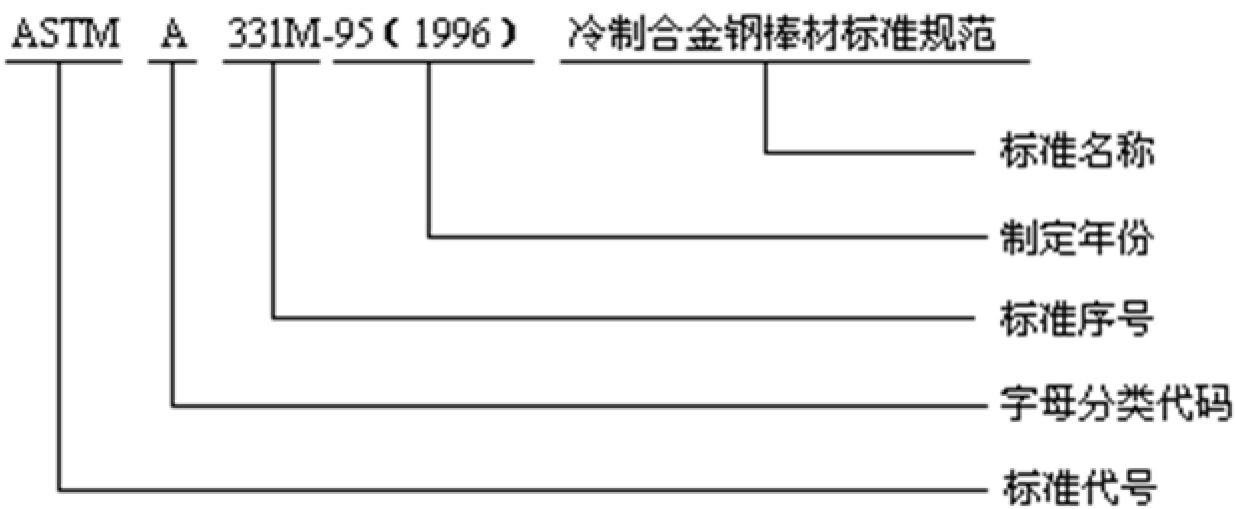
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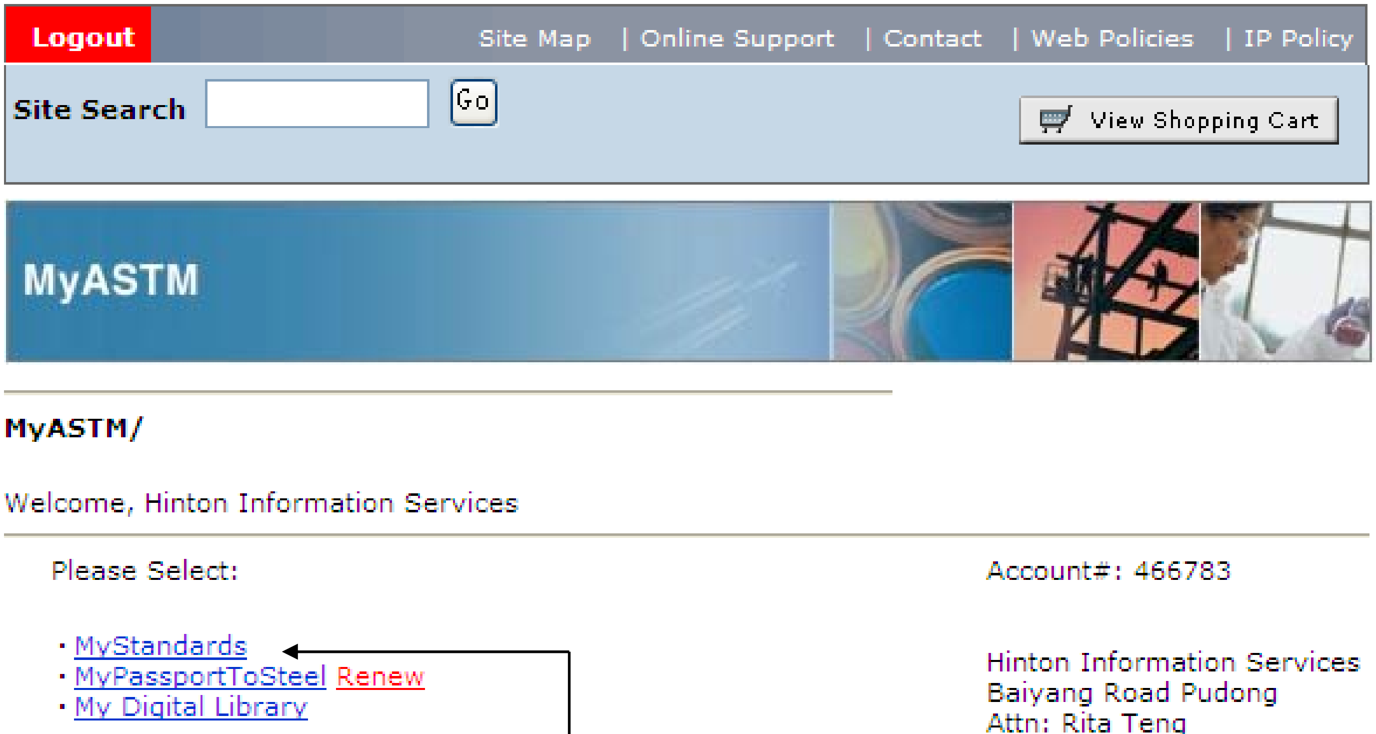
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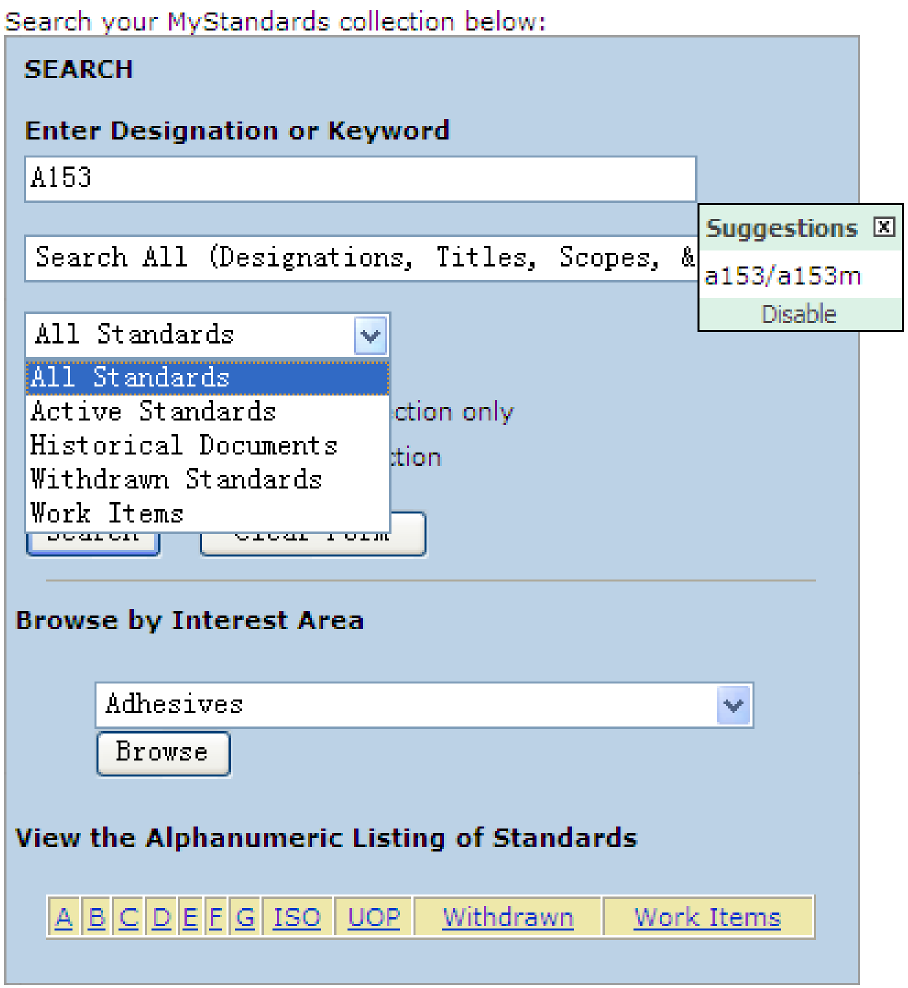
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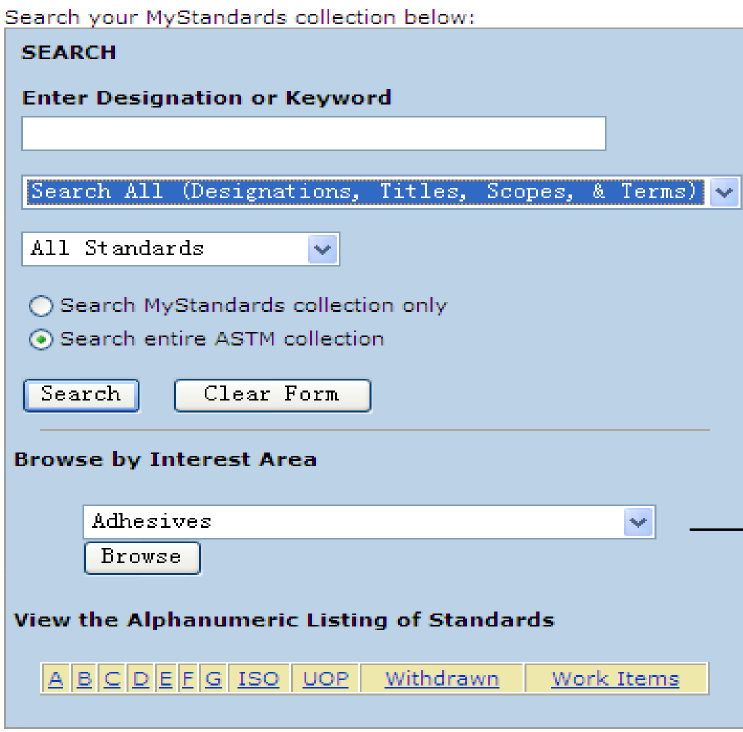
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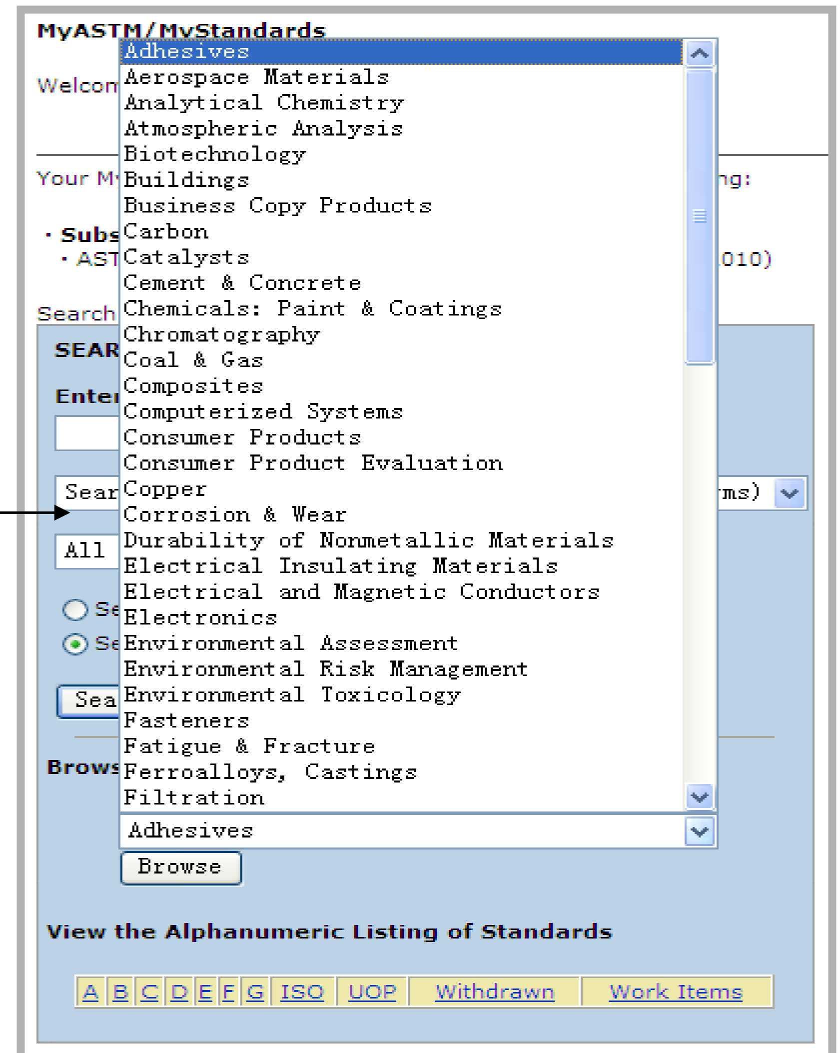
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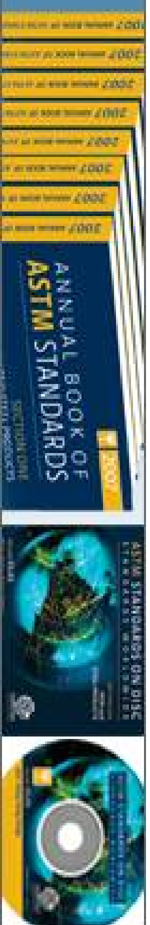


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... steel is produced by the immersion of fabricated or unfabricated products in a bath of molten zinc, as specified in Specifications A 123 or **A153/A153M**. ...			
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View	F2329-05	Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners	☐
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View	A153/A153M-01	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware	☐
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ASTM A153/A153M-05

A153/A153M-05 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

标准的编号

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Abstract

This specification covers standards for zinc coatings applied through hot-drip process on iron and steel hardware. The hot-dip galvanizing process shall form layers of Zn/Fe alloy adhering to the steel surface. This specification is applicable to steel hardware items of Classes A, B, C, and D. The thickness or weight/mass of zinc coating shall conform to specified values for various classes of materials. The coated articles shall be free from uncoated areas, blisters, flux deposits, dross inclusions, and other defects. The coating shall be smooth and reasonably uniform in thickness. Tests shall be performed to determine the minimum coating weight or minimum coating thickness, finish and appearance, embrittlement, adherence, average weight/mass of coating, and average thickness of coating. Guidelines are also given for inspection, rejection and retest, packaging, and certification procedures.

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1. Scope

1.1 This specification covers zinc coatings applied by the hot-dip process

2. Referenced Documents

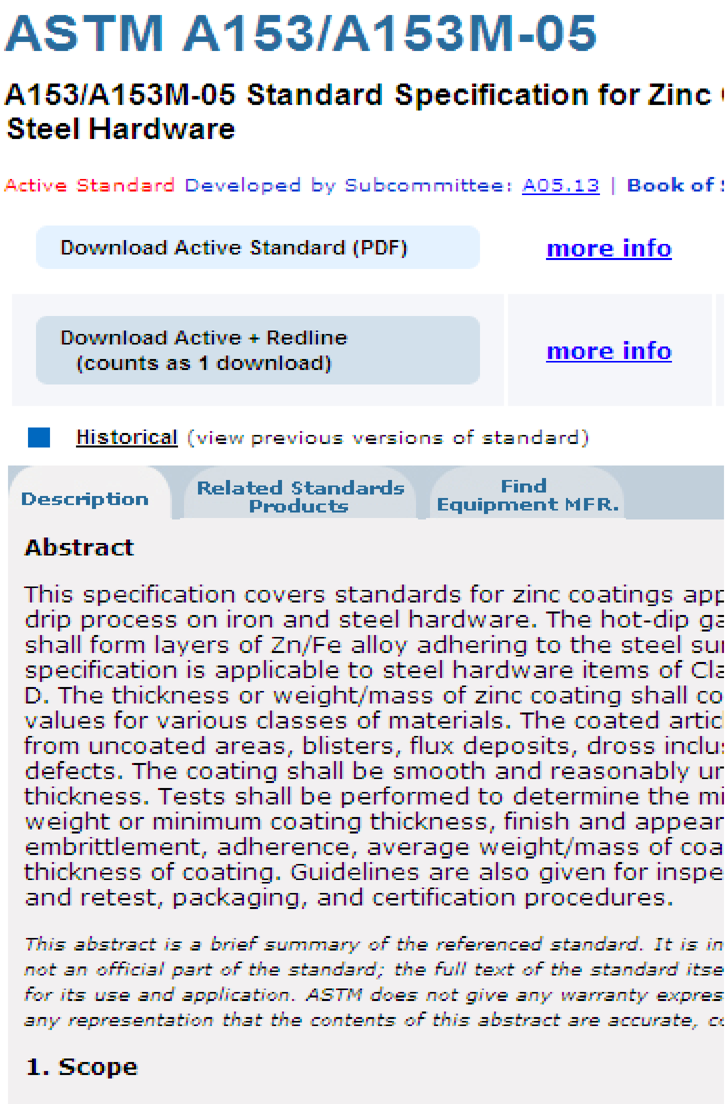
A780 Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
A90/A90M Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles
A902 Terminology Relating to Metallic Coated Steel Products
B487 Test Method for Measurement of Metal and Oxide Coating Thicknesses by Microscopical Examination of a Cross Section
B6 Specification for Zinc (Slab Zinc)
E376 Practice for Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Test Methods
F1470 Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection
F1789 Terminology for F16 Mechanical Fasteners
A143 Practice for Safeguarding Against Embrittlement of Hot-Dip Galvanized Structural Steel Products and Procedure for Detecting Embrittlement

Index Terms

coatings, zinc; galvanized coatings; steel hardware, zinc coated; steel products, metallic coated; zinc coatings, steel products; ICS Number Code 91.190; 91.190

DOI: 10.1520/A0153_A0153M-05





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shall be made in accordance with Practice A 780. The galvanizer shall make repairs unless directed by the purchaser to deliver items unrepaired for subsequent renovation by the purchaser.

501 to 1200	5
1201 to 3200	8
3201 to 10 000	13
10 001 and over	20

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